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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---|-----------------|----------------------|-------------------------|-----------------|
| 10/002,762 | 10/24/2001 | Goh Kondoh | JP9-2000-0274 | 4365 |
| 33360 | 7590 05/21/2004 | • | EXAMINER | |
| MARK D. MCSWAIN | | | BONZO, BRYCE P | |
| IBM ALMADEN RESEARCH CENTER, IP LAW DEPT. | | | | A |
| 650 HARRY | | | ART UNIT | PAPER NUMBER |
| CHTA/J2B | | | 2114 | |
| SAN JOSE, | CA 95120 | | DATE MAILED: 05/21/2000 | 4 |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|---|--|---|----------|--|--|--|
| | Application No. | Applicant(s) | / | | | |
| | 10/002,762 | KONDOH ET AL. | / | | | |
| Office Action Summary | Examiner | Art Unit | <u> </u> | | | |
| | Bryce P Bonzo | 2114 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 24 Oc | <u>ctober 2001</u> . | | | | | |
| 2a) This action is FINAL . 2b) ⊠ This | action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 53 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) ⊠ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or | vn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>24 October 2001</u> is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the option of the contraction is objected to by the Examiner | a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d |). | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). | on No ed in this National Stage | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary | (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | te | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 6) Other: | atent Application (PTO-152) | | | | |

NON-FINAL OFFICIAL ACTION

Status of the Claims

Claims 1-16 are rejected under 35 USC §102.

Rejections under 35 USC §102(e)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Gessner (United States Patent Application Publication US 2002/0032709).

As per claims 1-16, Gessner discloses:

1. A structure recovery system comprising:

analysis means for analyzing the structure of a data string written in accordance with a predetermined rule and for detecting an error in accordance with said predetermined rule (page 3, ¶25: "fairly simple scanner"); and

recovery means for, upon the receipt of a request from said analysis means, correcting in accordance with said predetermined rule said error detected in said data

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string by said analysis means (Page 3, ¶29: "now allows such tokens and constructs to

be fixed"),

wherein said recovery means includes a set of correction means that individually

employ simple functions for correcting specific types of errors (Page 3, ¶28: the DTDs

fulfill these requirements), and

wherein said recovery means selectively employs said correction means based

on the error type in accordance with said predetermined rule in order to correct a variety

of errors in said data string (page 3, ¶29: illustrates this with the ... example).

2. A parsing system, for performing the parsing of a data string written in accordance

with a predetermined rule, comprising:

a parser for performing a parsing process (page 3, ¶27); and

a syntax recovery unit for, upon the receipt of a request from said parser,

correcting an error detected by said parser in said data string (page 3, ¶29: "suppose

parsing engine were to realize"),

wherein said syntax recovery unit can change the contents of a correction (page

3, ¶29: "transformed into well-formed expressions").

The parsing system according to claim 2, wherein multiple types of said syntax

recovery units are prepared in accordance with the types of errors that are detected by

said parser in said data string (Page 3, ¶28: DTD prepare the parser), and each of said

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syntax recovery units has a function for correcting a specific type of error (Page 3, ¶29:

as defined by the replaceable DTD).

4. The parsing system according to claim 3, further comprising:

corresponding information storage means for storing information that correlates

the type of data string with a syntax recovery unit for recovering from an error in said

data string (Page 3-4, ¶33 and ¶41),

wherein, in accordance with the type of target data string, said parser employs

said information stored in said corresponding information storage means to set up said

syntax recovery unit for the correction of an error upon the receipt of a request (Page 4,

¶35).

5. The parsing system according to claim 3, wherein, when said target data string

includes an element that is not defined by a rule that said parser employs for said

parsing process, at least one of said syntax recovery units is activated and performs a

process for replacing said rule used by said parser with a rule that defines said element

in said target data string, and for returning said target data string to said parser (Page 4,

¶37).

6. The parsing system according to claim 2, further comprising:

a lexical analyzer, for performing token analysis for said target data string (Page

3, ¶25: HTML and XML); and

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a token recovery unit, for correcting an error detected by said lexical analyzer in

said token in said data string (Page 3, ¶29: transformation of the otherwise malformed

documents),

wherein said token recovery unit can change the contents of a correction (page

3, \P 29: constructs to be fixed).

7. The parsing system according to claim 6, wherein multiple types of said token

recovery units are prepared in accordance with the type of error that is detected by said

lexical analyzer in said data string, and each has a function for correcting a specific type

of error (Page 3, ¶28-29).

8. A system for converting a data string in a predetermined form into a data string in

another form comprising:

an analyzer for analyzing said data string (page 3, ¶25);

a recovery unit, for, upon the receipt of a request from said analyzer, correcting

an error detected in said data string by said analyzer (page 3, ¶29); and

a converter, for changing a data form in accordance with the results obtained by

said analyzer (Page 3, ¶28),

wherein multiple types of said recovery units are prepared in accordance with the

type of error that is detected by said analyzer in said data string, and each has a

function for correcting a specific type of error (Page 3, ¶27-29).

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9. The conversion system according to claim 8, wherein said analyzer is parsing means for parsing said data string (page 3, ¶25), and said recovery unit is syntax recovery means for correcting an error in said data string in accordance with a syntax rule (Page

Page 6

3, ¶29).

10. A computer comprising:

an input unit for receiving a data string written in accordance with a predetermined rule (Figure 1, Scanner component);

a processor for processing said data string by using a function implemented by program control (Page 3, ¶33); and

an output unit for outputting said data string obtained by said processor (page 1, Sink Component),

wherein said processor includes

an analyzer for analyzing said data string (page 3, ¶25); and a recovery unit, for, upon the receipt of a request from said analyzer (Page 3, ¶29), correcting an error detected in said data string by said analyzer (page 3, ¶29), and

wherein multiple types of said recovery units are prepared in accordance with the type of error that is detected by said analyzer in said data string, and each has a function for correcting a specific type of error (Page 3, ¶29; Page 4, ¶36-37).

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11. The computer according to claim 10, wherein said analyzer is parsing means for parsing said data string (Page 3, ¶25), and said recovery unit is syntax recovery means for correcting an error in said data string in accordance with a syntax rule (Page 3, ¶29).

12. A parsing method for parsing a data string written in accordance with a predetermined rule comprising the steps of:

selecting a program module used to correct an error in a target data string in accordance with a syntax rule (Page 3, ¶27);

parsing said data string (Page 3, ¶27);

issuing a correction request to said program module when said parsing detects an error in accordance with said syntax rule in said data string (page 3, ¶29); and

correcting said error using said program module, and parsing the obtained data string (page 3, ¶29).

13. The parsing method according to claim 12, wherein said step of selecting a program module for use includes the steps of:

examining the type of said target data string (Page 3, ¶27); and employing said type of said target data string to select said program module based on a correlation that is defined in advance (page 3, ¶28).

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14. The parsing method according to claim 12, further comprising the step of:

replacing, upon the receipt of an instruction from said program module to which said correction request has been issued, a rule used for said parsing with a different rule (page 3, ¶31),

wherein, at said step of performing said parsing for the resultant data string, said parsing is performed for said data string written in accordance with said different rule (page 3, ¶31).

Claim 15 is the computer readable program product stored on a media embodiment of the conversion system of claim 8, and is rejected on the same grounds.

Claim 16 is the program transmission apparatus embodiment of the conversion system of claim 8, and is rejected on the same grounds.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryce P Bonzo whose telephone number is (703) 305-4834. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703) 305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bryce P Bonzo Examiner

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